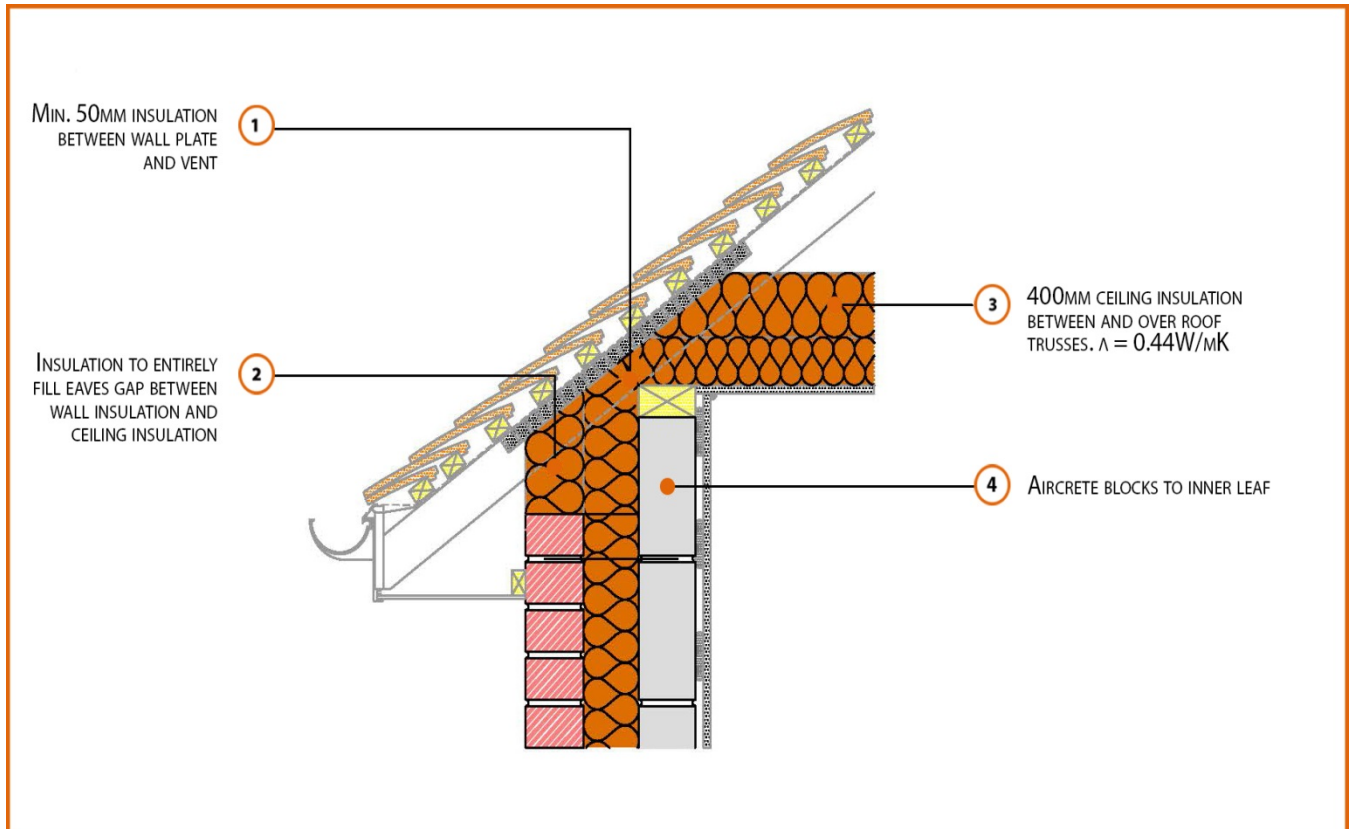


## Registration Number: E10MCFF6



### Build Up

External Masonry Cavity Wall

Masonry Outer Leaf ( $\lambda = 0.77$ )

100mm Aircrete Block Inner Leaf ( $\lambda = 0.19 W/mK$ )

Full Fill Insulation

Pitched Roof Eaves (minimum pitch 40°)

400mm insulation quilt (0.044W/mK) at Ceiling Level

Ventilated Loft

## Calculated $\psi$ -values

Cavity Insulation	Inner leaf blockwork
	Aircrete Block $\lambda = 0.19$ W/mK
	$\psi$ -value W/mK
100mm $\lambda=0.037$	0.078
150mm $\lambda=0.037$	0.091
100mm $\lambda=0.032$	0.084
150mm $\lambda=0.032$	0.095

## Points to Watch

- Ensure cavities are kept clean of mortar snots and other debris during construction
- Ensure gap between wall plate and eaves ventilator is fully filled to maintain continuity of insulation through the junction.
- Any vapour permeable roof underlay should be used in accordance with manufacturer's recommendations where it may be in contact with the insulation.
- The eaves insulation should not compromise the cross flow ventilation or free water drainage below timber battens.
- Fire resistance will also be required for room in roof situations.
- Fix ceiling plasterboard first and seal all gaps between ceiling and masonry then seal all penetrations through air barrier with flexible sealant.
- Read in conjunction with roof details E12 and E13.